

Patent
Attorney's Docket No. 024705-083

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

HAYASHIZAKI

Application No.: 09/269,573

Filed: July 16, 1999

For: METHODS FOR DETECTING
MUTATION IN BASE SEQUENCE



Group Art Unit: 1655

Examiner: B. Forman

#121
Plunkett
11/18/00
(09/99)

REPLY & AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In complete response to the Official Action mailed July 11, 2000, please amend the above-cited application as follows:

IN THE CLAIMS

1. (Twice Amended) A method for detecting nucleic acid fragment and/or PNA having a mutation, comprising the steps of:

(A) hybridizing at least one fragment among one or more fragments fixed on a substrate, which fragments are selected from the group consisting of one or more nucleic acid fragments and one or more PNA fragments and have [a part or] all of a sequence of full-length gene, with at least one fragment of which mutation is to be assayed, wherein said fragment is selected from the group consisting of one or more nucleic acid fragments and one or more PNA fragments;

(B) binding a labeled substance, said substance specifically binding to a mismatched base pair occurring between the hybridized fragments having a mutation; and

(C) identifying a fragment bound by the labeled substance by detecting the label, thereby detecting a nucleic acid and/or PNA fragments having a mutation.

9. (Amended) A method for detecting a nucleic acid fragment and/or PNA fragment having a mutation, comprising the steps of:

(09/99)